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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,023	04/02/2004	Salvatore V. Pizzo	5405-304	2746
	7590 02/05/201 L SIBLEY & SAJOVE	EXAMINER		
PO BOX 37428			LE, EMILY M	
RALEIGH, NC 27627			ART UNIT	PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			02/05/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/817,023	PIZZO ET AL.			
Office Action Summary	Examiner	Art Unit			
	EMILY M. LE	1648			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perions Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  1.136(a). In no event, however, may a reply be  red will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 10/2      This action is <b>FINAL</b> . 2b)☑ The 3)☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, p				
Disposition of Claims					
4) ☐ Claim(s) 4,16-20 and 28-35 is/are pending in 4a) Of the above claim(s) 20 is/are withdrawr  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 14,16-19 and 28-35 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and  Application Papers  9) ☐ The specification is objected to by the Examin	n from consideration.  /or election requirement.				
10) The drawing(s) filed on is/are: a) according to a deplicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the I	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is contact the drawing(s) is contact to the drawing(s).	See 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4)  Interview Summa Paper No(s)/Mail 5)  Notice of Informa 6)  Other:				

Application/Control Number: 10/817,023 Page 2

Art Unit: 1648

## **DETAILED ACTION**

## Status of Claims

1. Claims 1-13, 15 and 21-27 are cancelled. Claims 29-35 are added. Claims 14, 16-20 and 28-35 are pending. Claim 20 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10/04/2006. Claims 14, 16-19 and 28-35 are under examination.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 14, 16-19 and 28-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takesako et al., in view of Lenney et al.<sup>2</sup>

The claims are directed to the administration of an immunogen with Compound 48/80, in a pharmaceutical carrier, to a subject to induce an immune response in the subject. Claim 16, which depends on claim 14, requires the administration be parenteral. Claims 17-19, which depend on claim 14, require the immune response to be prophylactic, therapeutic and humoral, respectively. Claim 28, which depends on

<sup>&</sup>lt;sup>1</sup> Takesako et al. U.S. PreGrant Pub No. 2002/0058293 A1, published 05/16/2002

<sup>&</sup>lt;sup>2</sup> Lenney et al. Antimicrobial Action of Compound 48/80 against protozoa, bacteria and fungi. Journal of Pharmaceutical Sciences, May 1977, Vol. 66, No. 05, 702-705.

Art Unit: 1648

claim 14, requires the administration be mucosal. Claims 29-34 are directed to the method of claims 14, 16, 28, 17-19, respectively.

Takesako et al. teaches the administration of an immunogen in a pharmaceutical carrier, to a subject to induce an immune response in the subject. [Example 6-10, in particular.] The administration method disclosed by Takesako et al. includes parental, mucosal. Takesako et al. teaches that the immunogen has protective activity, hence, its use as a vaccine composition to induce a prophylactic, humoral and/or cellular immunity. [Paragraph 0148, in particular.]

The vaccine composition of Takesako et al. does not comprise Compound 48/80. However, Takesako et al. suggests the use of antifungal agents and antimicrobial agents with the vaccine. [Paragraph 0148, in particular.]

At the time the invention was made, Lenney et al. teaches an antimicrobial agent that is effective against protozoa, bacteria and fungi. The antimicrobial agent of Lenney et al. is Compound 48/80. [Title and Abstract, in particular.] Thus, at the time the invention was made, it would have been prima facie obvious for one of ordinary skill in the art to use Compound 48/80 as the antimicrobial agent in the vaccine composition of Takesako et al. One of ordinary skill in the art, at the time the invention was made, would have been motivated to do so to provide antimicrobial protection to the vaccine of Takesako et al. One of ordinary skill in the art, at the time the invention was made would have had a reasonable expectation of success because the addition of antimicrobial agents with pharmaceutical products is routinely practiced.

Application/Control Number: 10/817,023 Page 4

Art Unit: 1648

## Conclusion

4. No claim is allowed.

5. To allow the entry of the rejections set forth herein, the office action is non-final.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to EMILY M. LE whose telephone number is (571)272-

0903. The examiner can normally be reached on Monday - Friday, 8 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Larry R. Helms can be reached on (571) 272-0832. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/EMILY M LE/

Primary Examiner, Art Unit 1648

/E. M. L./

Primary Examiner, Art Unit 1648